





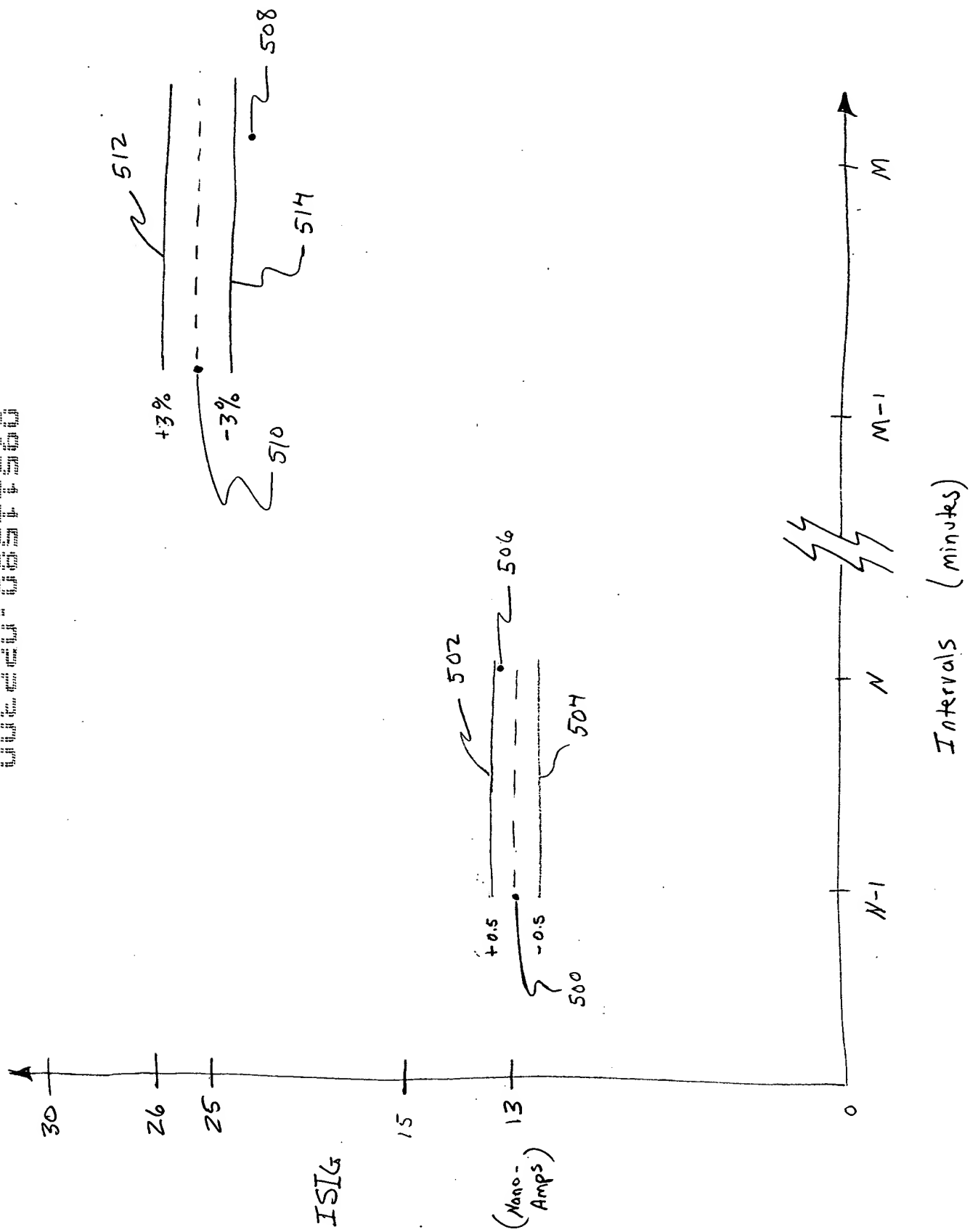
[illegible]

Fig. 9

Microsoft Excel - P000-0010@11-59-11@7-13-1998.FDA

100%

10

M08

Pedest ID	Sample	Date	Time	ISIG Value	VCTR	Meter Value	Slope	Offset	Valid ISIG	Sensor Value	Power Up	Power Down	Sensor Initialization	Link Event	Sensor Disconnect
000-0000	0	7/10/98	10:53	0	-2.042										
000-0000	1	7/10/98	10:58	0	-2.026										SeDi
000-0000	2	7/10/98	11:03	0	-1.732										
000-0000	3	7/10/98	11:09	99.1	-0.936										
000-0000	4	7/10/98	11:14	19.7	-0.966										
000-0000	5	7/10/98	11:19	26.1	-0.990										
000-0000	6	7/10/98	11:24	25.7	-0.626										
000-0000	7	7/10/98	11:29	26	-0.643										
000-0000	8	7/10/98	11:34	24.9	-0.648										
000-0000	9	7/10/98	11:39	23.9	-0.649										
000-0000	10	7/10/98	11:44	23.8	-0.651										
000-0000	11	7/10/98	11:49	24.3	-0.658										
000-0000	12	7/10/98	11:54	23.9	-0.655										
000-0000	13	7/10/98	11:59	23	-0.652										
000-0000	14	7/10/98	12:04	23.3	-0.652										
000-0000	15	7/10/98	12:09	22.2	-0.645								ESI		
000-0000	16	7/10/98	12:14	22.1	-0.644	95	5.0	3	22.1	96					
000-0000	17	7/10/98	12:19	20.1	-0.634				20.1	86					
000-0000	18	7/10/98	12:24	19.9	-0.637				19.9	85					
000-0000	19	7/10/98	12:29	20.6	-0.645				20.6	88					
000-0000	20	7/10/98	12:34	20.8	-0.662				20.8	89					
000-0000	21	7/10/98	12:39	19.1	-0.645				19.1	81					
000-0000	22	7/10/98	12:44	18.2	-0.636				18.2	76					
000-0000	23	7/10/98	12:49	17.4	-0.633				17.4	72					
000-0000	24	7/10/98	12:54	16.4	-0.625				16.4	67					
000-0000	25	7/10/98	12:59	15.7	-0.619				15.7	64					
000-0000	26	7/10/98	13:04	15	-0.612				15	60					
000-0000	27	7/10/98	13:09	13.8	-0.602				13.8	54					
000-0000	28	7/10/98	13:14	13.3	-0.597				13.3	52					
000-0000	29	7/10/98	13:19	14.4	-0.62				14.4	57					
000-0000	30	7/10/98	13:24	16	-0.636				16	65					

Data

Fig. 10

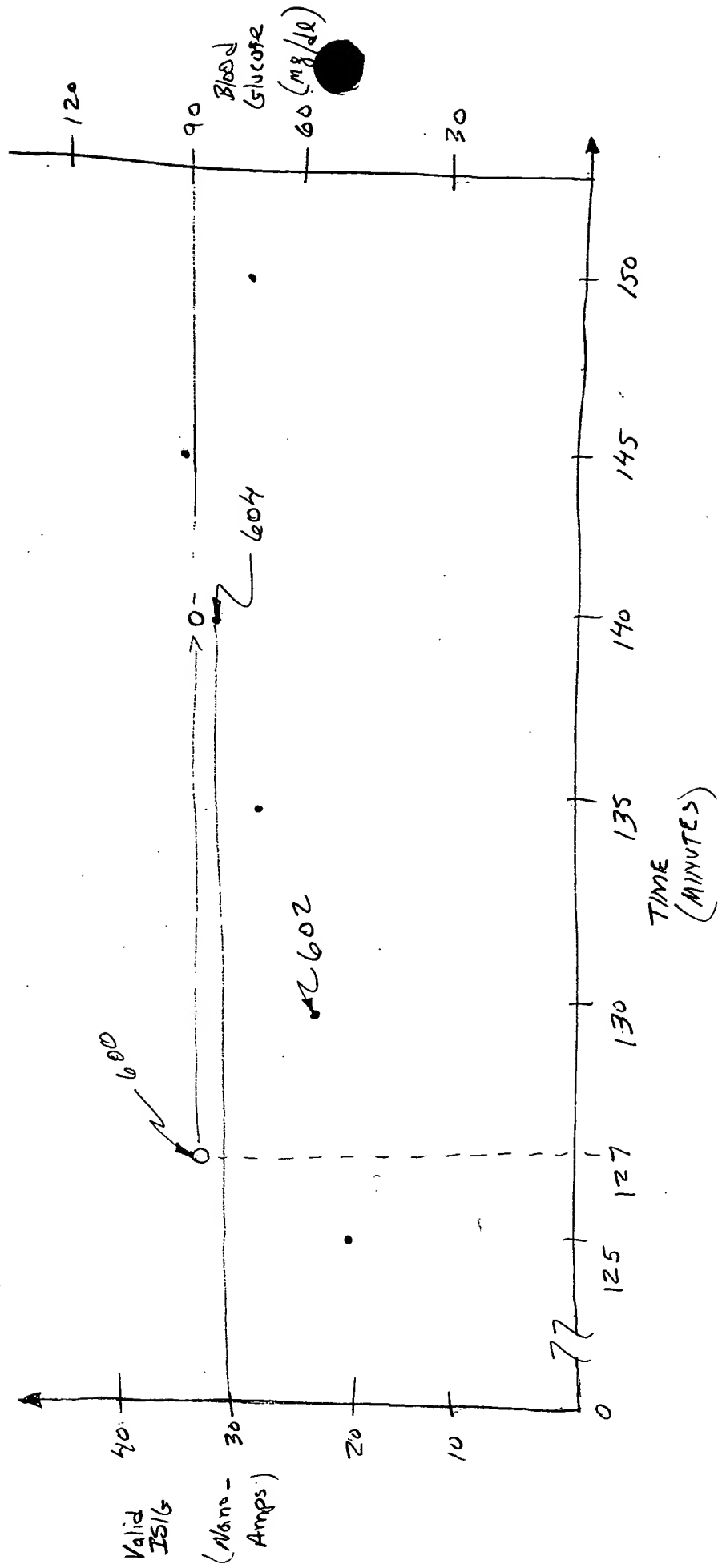
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Fig. 11

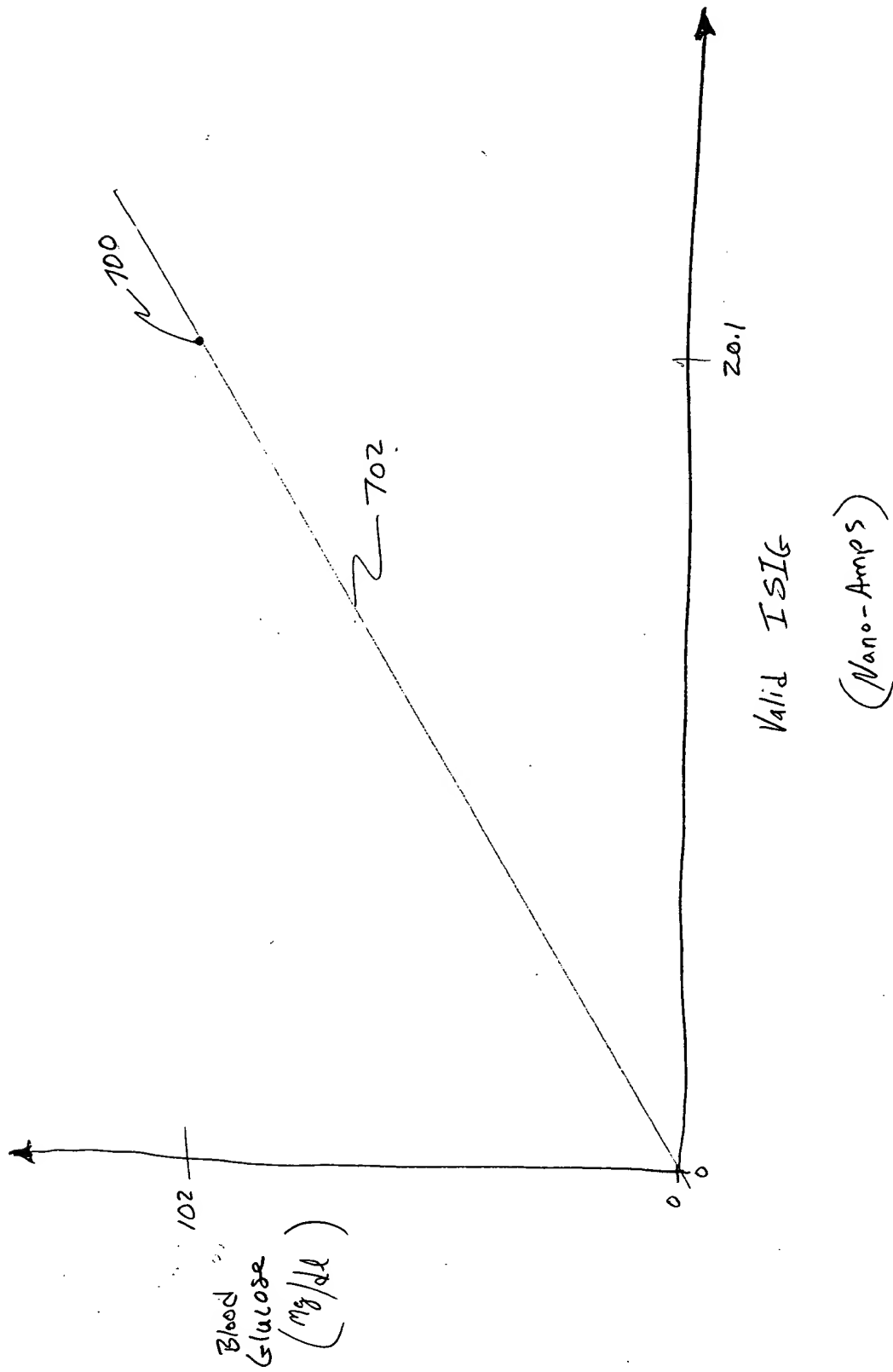


Fig. 12

Initialization / Standardization  
Complete

Pair a Blood Glucose Standard Reading  
with a Valid ISIG Memory Storage Value.

Calculate Single Point Sensitivity Ratio (SPSR)  
$$\text{SPSR} = \frac{\text{Blood Glucose Standard Reading}}{\text{Valid ISIG}}$$

Select Offset Value  
 $\text{SPSR} < 7 \Rightarrow \text{offset} = 3$   
 $\text{SPSR} \geq 7 \Rightarrow \text{offset} = 0$

Calculate Modified SPSR (MSPSR)  
$$\text{MSPSR} = \frac{\text{Blood Glucose Standard Reading}}{(\text{Valid ISIG} - \text{offset})}$$

Initial Calibration is complete  
$$\text{Blood Glucose} = (\text{Valid ISIG} - \text{offset}) * \text{MSPSR}$$

Fig. 13



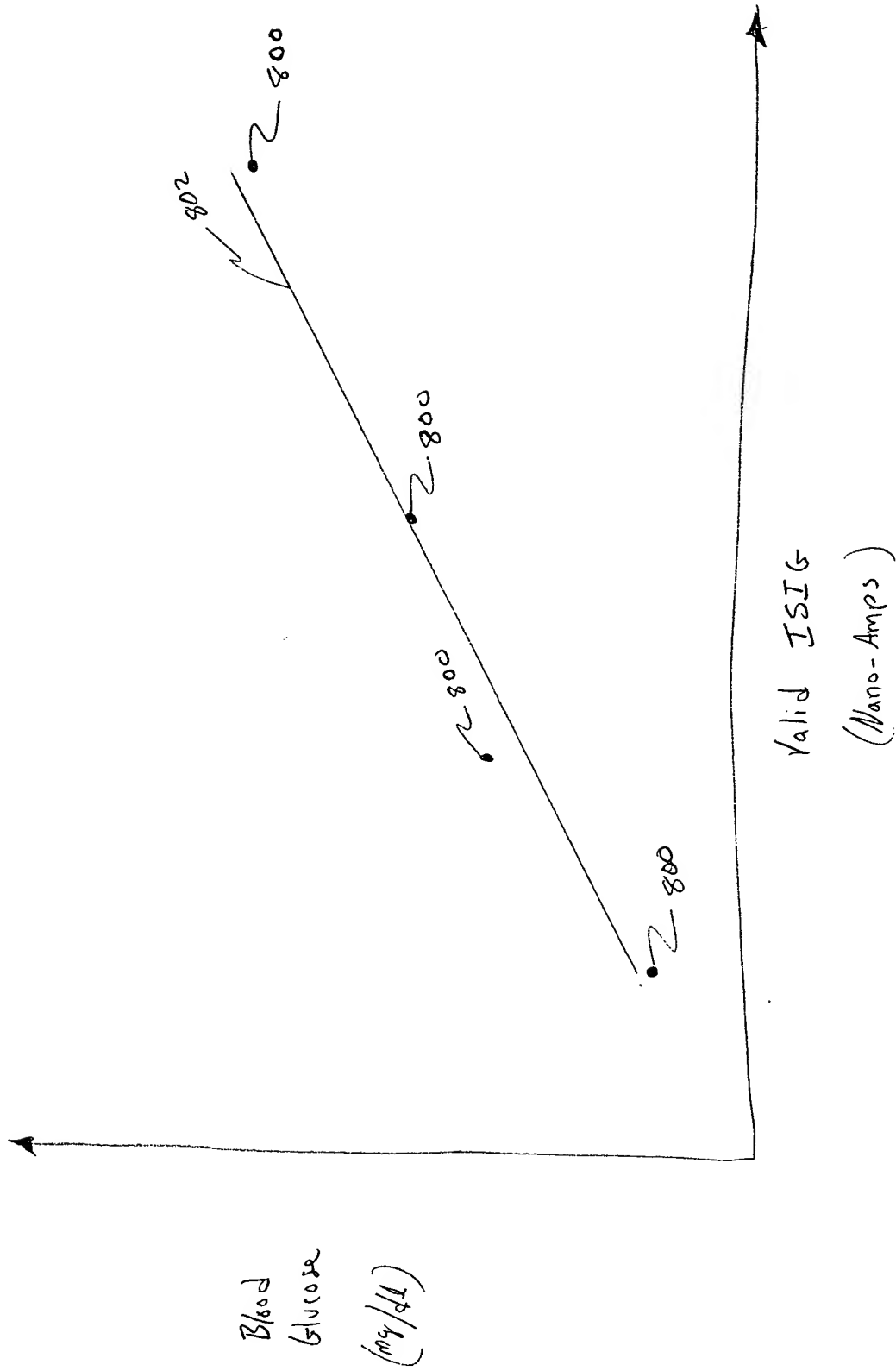


Fig. 14

2 or more paired calibration data points are available.

Calculate Linear Regression Sensitivity Ratio (LRSR)

$$LRSR = \frac{\sum_{i=1}^N [X_i Y_i]}{\sum_{i=1}^N [X_i^2]}$$

$i$  = the  $i$ th pair  
where  $X$  = Valid ISIG  
 $Y$  = Blood Glucose  
Standard  
Reading

$N$  = Number of paired  
calibration data points

Select Offset Value

$LRSR < 7 \Rightarrow \text{offset} = 3$

$LRSR \geq 7 \Rightarrow \text{offset} = 0$

Calculate Modified LRSR (MLRSR)

$$MLRSR = \frac{\sum_{i=1}^N [(X_i - \text{offset}) Y_i]}{\sum_{i=1}^N [(X_i - \text{offset})^2]}$$

Calibration is complete

Blood Glucose = (Valid ISIG - offset) (MLRSR)

Fig. 15